Transparent Conductive Materials 1

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Monday 4th of November 2013
Conference room 2nd floor at LMGP – Grenoble INP – Phelma - Minatec

This first meeting on Transparent Conducting Materials aims at presenting several research activities and is devoted to one-dimensional nano-objects. The seminars are open and should foster discussions between several research teams.
It will be followed by a second meeting devoted to the more "traditional" transparent conductive oxides (TCO) scheduled on ***the afternoon of 12th of December****, 2013. Detailed program will be given soon .*

8h15- Introduction (Daniel BELLET, LMGP)

8h30- "Introduction to TCMs and Percolation theory for the Collection Efficiency of Metallic Nanowire Networks in Solar Cells" (35'+15')
D. P. Langley (LMGP, Uni. Liège), M. Lagrange, G. Giusti, N. D. Nguyen, D. Bellet

9h20- "Electrical simulation and characterization of random networks of conducting 1D structures" (35'+15')
Min-Kyu Joo (IMEP-LAHC& Korea University), **M. Mouis**, G. Kim, G. Ghibaudo

10h10-10h30 Coffee break

10h30 - "Transparent and flexible electrodes based on metallic nanowire networks for optoelectronic devices" (30'+15')
C. Mayousse (CEA LITEN), T. Lescouet, C. Celle, J.-P. Simonato

11h15 - "Improvement of the physical properties of silver nanowire networks: effects of deposition, density and post-deposition treatments" (30'+15')
M. Lagrange (LMGP-SIMaP), D. P. Langley, G. Giusti, C. Jimenez, Y. Bréchet, D. Bellet

12h00- "Carbon nanonets for optoelectronic applications" (30'+15')
C. Ternon (LTM-LMGP), C. Aguirre, F. Dupas, P. Serre, S. Silveira-Stein

12h45 End of the session

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